holismatic

N V 2 T 8 P P S U 1 1 L C Y 1 W L L 7 P N W T 3 L 1 R S U 1 ATOMACTITICA MARKACITA TOTAL CATAGORITICA MAGATICA TRACE T

FIGURE 1

08/368 Ciossek et Figure 24

MDK1-T1

2182 2272 2362 2452 2632 2722 2812 2901 V A V A G T Î I L V P H V P G P I I G R R H C G Y S K A D Q GTGGCTGTAGCAGGACCATCATCTTGGTGTTCATGGCTTCATTGGAAGAAGAGCACTGTGGTTATAGCAAGGCTGACAA E G D E B L Y P H S L V T N E H L S V L . GAAGGGATGAAGAACTCTACTTCTTTAGTAACAAATGAGCACCTGTCAGTTTTATAAACGGGaacaataactgtttaagacaat caattitggataaacaatcaactacagcagaataaatcaagattiltaagicccatitticctilatacattcigctiatiigitgitai ttgactgagcatttatgtgtttaccigcatgcttctggggtgcattgaaatattttaacttttaaaatgatactatgttgtttcaattttga tticaaatcacigicatactiggicacggaicccaggaatatigtaaattitctaatttactcigcacitigtatatocagccictatta ccetcaaggigaatataaaaetaigiettitgaatattieettigattiigigatageagieeeteatatetigiaetaaittiaigia atgittaittittaaacicigateitgatigaatgigataccataagcacagitaggeigeagigiaaatatataaagacatigiiciga gagcagtacgatttcatggaaagattgtttggtggctttgttaaaattaataaagaatttttaaggatatagtgtaatttcttcattg 900

MDK1-T2

2002 2092 V A V A G T I I L V P M V P G P I I G R R H C G Y S K A D Q GTGGCTGTAGCAGGACCATGTGGACGATATAGCAAGGCTGACGAA

GCATCGTGCTCTCGTTTGTAGgtctcttttcctaatcaacactatgattttgaagtacgcgtacacgaagcaaacggaagagaataagga

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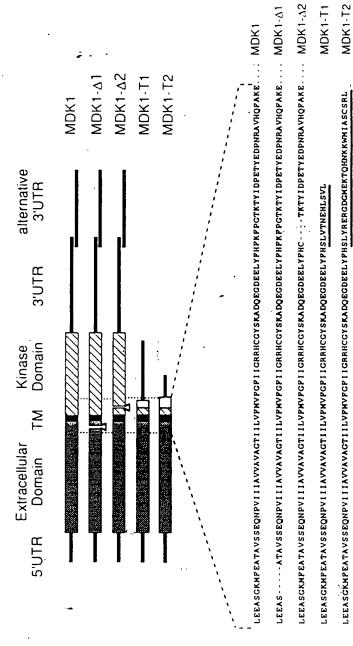
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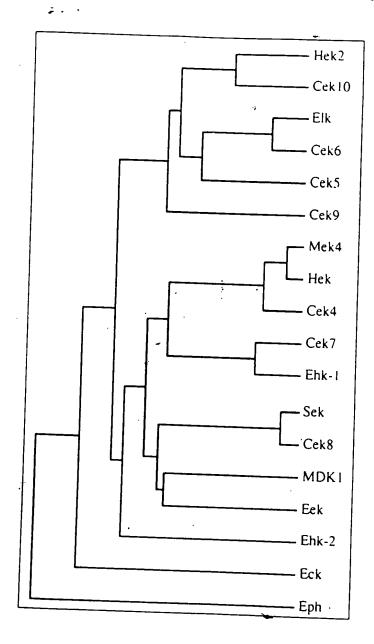


FIGURE 3

Ciossek et al.

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SHIPS WITH

N V Q T R P P S W I I L C T I W L L 7 P A N T Q E A 2 A A TOSTTOTTCAAACTCGGTTCCCTTCGTGGATTATTTTTGTGTTACATCTGGCTGCTTTGCACACACGGGGGAGGCCAAGGC 3229 3409 3499 3589 3628

FIGURE 1

2362 2452 2542 2632 2722 2812 2901



Abers (graft)

V A V A G T Î I L V P H V P G P I I G R R H C G Y S K A D O GTGGCTGTAGCAGGACCATCCATGGTGTTCATGGTTCATCATTGAAAGAAGGCACTGTGGTTATAGCAAGGCTGACCAA

MDK1-T1

2002

QAAGGGGATGAAGAACTCTACTTTCATTCTTAGTAACAAATGAGCACCTGTCAGTTTTATAAGCGGGagcaataactgtttaaggcaat 610 EGDEELYPИS LVTNEHLSV 009

atgittaittittaaacicigalciigaligaalgigalaccalaagcacagitaggicigcagigaaalalalaaagacaligiteiga Gagcaglacgalticalggaaagaligitigiiggeiligitaaaaltaalaaagaaliittaaaggalalagiglaaltiicilcalige Allaalalaaccaaalalgeclaccialciiigicilgaaccaaalgaalagalliggaataciitaligaaalaigaaligaaligaaligaaligaalaaag tticamaticacigicamiactiggicacggarcocaggaatatigiamatticiaattiactoigoactitgiatatocagociciatia cocicamggigmatalamamactatgicititigmatatiticicitigmattitgigmalagomgicocicamatotigiaetamititatgim ttgactgagcatttatgtgttacctgcatgcttctgggtgcattgaaatattttaacttttaaaatgatactattgtttccaattttca

MDK1-T2

V A V A G T I I L V P H V P G P I I G R R H C G Y S K A D Q GFGGCFGTAGAGCAGGACCATCATCGTGTTCATCGTTCATCATCATTGGAAGAAGGCACTGTGGTATAGCAAGGCTGACCAA GHERTOHNRKKH 610 BELYPHSLYRERGD O

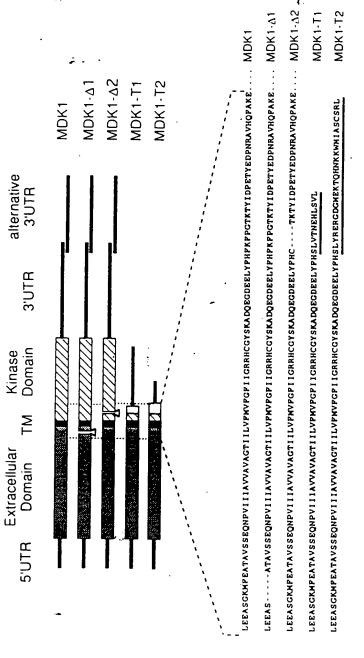
2002

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attagcattgtgaacctgactgtaatcctctcttccggaaagagatgaggtgctattgcgatgagaatgtacaacttgcaccttgaaatc A S C S R L * GCATCGYCTCTCGTYTGTAGgtctctttcctaalcaacactatgattttgaagfacgcgtacacgaagcaaacgggaagataagga tttttgataattagtgeteaggggaggggggggaagtagagaaageaaa

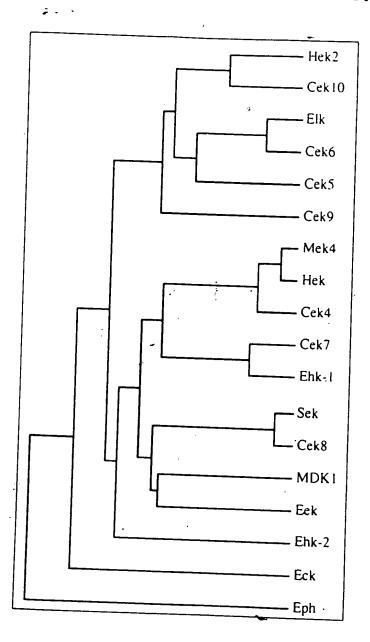
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FIGURE 3

Ciossek et al.



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10
u v v 0 T R F P S W I I L C Y I W L 3229 gttamaatcaatgamatattttoottamaatatgtgatttoagactattotttooagaaccatotgtgtttattotgottamggacttt
gttttagamagttatttgtagotttggacotttttagtgttamattatgacacgtactacactgggacotttgaagactotemaggactt
tamaggamagcamamotacgacactagtcggaggatggactttgtoottoagggctttggtatcotggactttmaaaggactttgttamaccagt
gatgtttocatattgtttgctgattggacggtagttcamamattgamagtgcacagamgcottgtatttttamaaggactttttttot
ttgtamamatcagatamoatactamottttoamtgamamamamamagamgamatgtcamamtttaggttatatggatamam
gamggamtttamgaggactttactagggacgamattamtamamamamagamgamtgtcamatttaggttatttggatatgatamam
gctgatgtttatagaggactttactaggacacttamacagamagctcacacgctttggcacaccaatccaagagcc
tcagttcgttatagaggacttagggamagcamamamamamagamgagatttattttgttagatgacaactcaagagcc
tcagttcgttggacagtamagamatttaggamagagagagctcatattttgtattctttctttttamatgcatcamaaaca 3769 08/368,776

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		2002			2092
065	V A V A G Т Ї І L V Р M V Р G Р І І G R R H С G Y S K A D O	GTGGCTGTAGCAGGACCATCATCTTGGTGTTCATGGTGTTCGGCTTCATCATTGGAAGAAGGCACTGTGGTTATAGCAAGGCTGACCAA. 2002			GAAGGGGATGAAGAACTCTACTTTCATTCTTTAGTAACAAATGAGCACCTGTCAGTTTTATAAACCGCaacaataactgtttaagacaat 2092
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580	ပ	AAGGCACTG			gcs
	H		610		TAAacc
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	Ö	TGG		>	AGT.
	H	CAT		ß	GTC
	н	CAT		J	Ü
	ч	CTT		ж	SCA
	ტ	GGG		ធ	TGA
	գ	GTT		z	AAA
570	>	GGT	009	F	AAC
	Σ	CAT		>	AGT
	DL,	GTT		J	TTT
	>	GGT		Ø	ST.
	J	CTT		H	TCA
	н	CAT		ρ.,	CTT
		CAT		×	CTA
	H	GAC		ב	ACT
	Ö	AGG		M	AGA
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	K	ပ္ပ		O	AGG
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2182 2272 2362 1452 2542 2632 2722 2812 2901 caattttggataaacaatcaactacagcagaataaatcaagatttttaagtcccattttcctttatacattctgcttatttgttgttgttat atgittatitittaaaacictgatcitgattgaatgigataccataagcacagttaggcigcagigtaaatataaagacatigiiciga gagcagtacgatttcatggaaagattgtttggtggctttgttaaaattaataaagaatttttaaggatatagtgtaattttcttcattgc attaatataaccaaatatgcctacctatctttgrcttgaaccaaatgaatagatttggaatactttattgtaattgaaattgatataaag ttgactgagcatttatgtgttacctgcatgcttctgggtgcattgaaatattttaacttttaaaatgatactatgttgtttcaattttga ctaccttttgtgaggcatactggctacctcctattagctaagatcttccaaagccttataaaggtttatataaaccatttctc coctcaaggtgaatataaaactatgtcttttgaatatttctctttgattttgtgatagcagtccctcatatcttgtactaattttatgta tttcaaatcactgtcatacttggtcacggatcccaggaatattgtaaattttctaatttactctgcactttgtatatccagcctctatta

		2002			2092
590	VAVAGTIILVPMVPGP.I.IGRRHCGYSKADO	ATAGCAAGCCTGACCAA	620	EGDEELYPHSLYRERGDGMEKTQHNKKWMI	GAAGGGGATGAAGAACTCTACTTTCATTCTCTTTACAGGGAAAAGGGGAGACGGGATGGAAAAGACACAGCACAATAAGAAGTGGATGATT 2092
	×	AAGAAGGCACTGTGGTT		z	CA
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2182 2272 2323 attagcattgtgaacctgactgtaatcctcctcctggaaagagatgatgctattgcgatgagaatgtacaacttgcaccttgaaatc GCATCGTGCTCTCGTTTGTAGgtcttttcctaatcaacactatgattttgaagtacgcgtacacgaagcaaacgggaagagataagga tttttgataattagtgctcaggggaggggggggaagtagagaaagcaaa

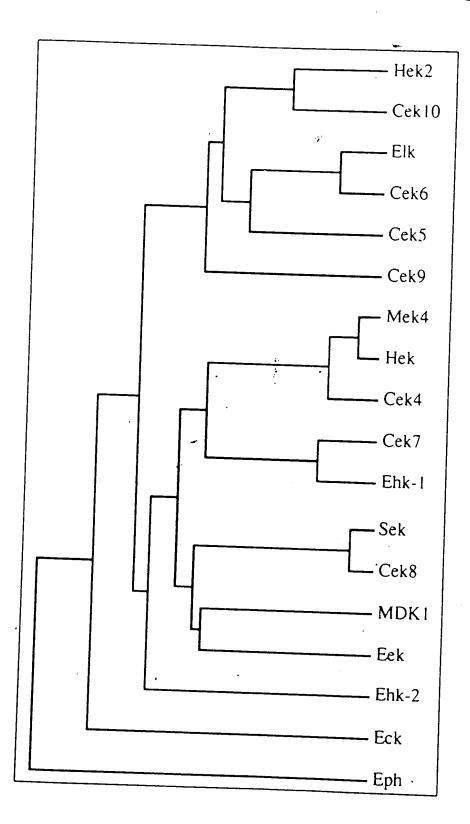
iossek et Fig 2B

alternative 3'UTR 3'UTR Kinase Domain ∑ ⊢ Extracellular Domain

MDK1-Δ2 MDK1-∆1 MDK1-T2 MDK1-T1 MDK1

LEEASGKMPEATAVSSEQNPVIIIAVVAVAGTIILVPMVPGPIIGRRHCGYSKADQEGDEELYPHC----TKTYIDPETYEDPNRAVHQPAKE.... MDK1-A2 MDK1-T2 LEEAS----ATAVSSEQNPVIIIAVVAVAGTIILVPMVPGPIIGRRHCGYSKADQEGDEELYPHPKPPGTKTYIDPETYEDPNRAVHQPAKE.... MDK1-Δ1 MDK1-T1 LEEASGKMPEATAVSSEQNPVIIIAVVAVAGTIILVPMVPGPIIGRRHCGYSKADQEGDEELYPHPKPPGTKTYIDPETYEDPNRAVHQPAKE... MDK1 LEEASGKMPEATAVSSEQNPVIIIAVVAVAGTIILVPMVPGPIIGRRHCGYSKADQEGDEELYPHSLYRERGDGMEKTQHNKKWMIASCSRL LEEA SGKMPEATAVS SEQNPVIIIAVVAVAGTIILVPHVPGPIIGRRHCGY SKADQEGDEELYPH<u>s</u>Lvtnehlsvl

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FIGURE 3